

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) Burner with A combustible gas burner comprising a burner head and inner and outer coaxial gas supply channels for the combustible gas and for a gas containing oxygen that are located in the burner head, the channel for oxygen containing gas having a cross sectional area of 0.8 to 1.8 times the cross sectional area of the channel for combustible gas, characterized in that and wherein the burner head, at least in the area of the coaxial exit ends of the coaxial gas supply channels, consists essentially of steel optionally alloyed with aluminum as a base, said base being coated with aluminum of an aluminum containing material.
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Currently Amended) Burner A burner according to Claim 1, wherein ~~in~~ at least one of the gas supply channels, ~~there is~~ comprises a vane therein that stabilizes ~~the~~ gas flow.
6. (Currently Amended) Burner according to claim 5, wherein the vane is set back relative to the exit ends of the coaxial gas supply channels.
7. (Currently Amended) Burner A burner according to Claim 5, wherein the incline of the vane is adjustable.
8. (Currently Amended) Burner A burner according to Claim 1, wherein ~~the~~ gas supply channels for the combustible gas and the gas containing oxygen are made from gas supply tubes that are inner and outer tubes arranged coaxially to one another.

9. (Currently Amended) Burner A burner according to Claim 1, ~~wherein there are comprising~~ means for producing a swirl flow in the gas supply channels.

10. (Currently Amended) Burner A burner according to claim 9, wherein the means for producing a swirl ~~have comprise~~ flow channels ~~that are~~ tilted tangentially against the direction of flow.

11. (Currently Amended) Burner A burner according to Claim 9, wherein the means for producing a swirl in the gas supply channels are adjustable in order to produce swirl flows of varied intensity.

12. (Currently Amended) Burner A burner according to Claim 1, wherein in the outside area, the burner has means for cooling by a vapor flow.

13. (Cancelled)

14. (Cancelled)

15. (New) A burner according to Claim 1, wherein the channel for oxygen-containing gas has a cross section 1.0 to 1.3 times the cross sectional area of the channel for the combustible gas.

16. (New) A burner according to Claim 8, having a ratio of cross sectional areas of the inner and outer tubes in the range of 1.0 to 1.3 respectively.

17. (New) A burner according to Claim 1, said outer channel having an exit end inclined toward the inner channel.

18. (New) A burner according to Claim 8, said outer channel having an exit end inclined toward the inner channel.

19. (New) A burner according to Claim 5, comprising means for producing a swirl flow in the gas supply channels.

20. (New) A burner according to Claim 6, comprising means for producing a swirl flow in the gas supply channels.

21. (New) A burner according to Claim 7, comprising means for producing a swirl flow in the gas supply channels.

22. (New) A burner according to Claim 21, wherein the means for producing a swirl comprise flow channels tilted tangentially against the direction of flow.

23. (New) A burner according to Claim 1, wherein the steel containing base is steel.

24. (New) A burner according to claim 22, wherein the steel containing base is steel.